High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education

CAREER TECHNICAL EDUCATION

Pathway: Information Support & Services
Database Development & Administration

Middle School		State Requirements			High School Suggested Education Plan				College & Careers

Middle School

7th Grade	8th Grade
Language Arts 7 1.00	Language Arts 8 1.00
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00
Science .50	Science 1.00
Utah Studies .50	U.S. History I 1.00
P.E. 1.00	Health .50
The Arts .50	The Arts .50
Keyboarding .50	
CTE Intro 1.00	

State Requirements

Middle School		High School
2.00	Language Arts	3.00
2.00	Math	2.00
1.50	Science	2.00
1.50	Social Studies	2.50
1.50	P.E./Health	2.0
1.00	Fine Arts	1.50
	Financial Literacy	.50
	Computer Tech.	.50
1.00	Career and Technical Education	1.00

High School Suggested Education Plan

9th Grade Suggested	10th Grade Suggested	11th Grade Suggested	12th Grade Suggested
Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	*(1 additional credit—class of 2011)*
Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Computer Programming 1.00	
Earth Systems 1.00	Biological Science 1.00	*(1 additional credit—class of 2011)*	
Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50
Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50		
Fine Arts Courses 1.50			
		Financial Literacy .50	
Computer Technology .50			

Career and Technical Education Recommended Pathway Courses

(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)

CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL

Course #	Foundation Courses: (required)	Credit	
11.0301	Database Development I	1.00	
	Choose one of the following courses:		
11.0201	Computer Programming I	1.00	2.00 credits
11.0301	Database Development II	1.00	
	Elective Courses:		
11.0101	Information Technology, Introduction	.50	
11.0202	Computer Programming II	1.00	1.00 credit
32.0199	Student Internship (Critical Workplace Skills)	.50	

3.00 credits for completion

Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.

College & Careers

Beyond High School

There are a number of options for education and training beyond high school, depending on your career goals.

> Certificate
> Associate degree
> Bachelor's degree
> Professional degree
> On-the-job training
> Apprenticeship
> Military training

Sample Occupations

> Database Administrator
> Database Architect
> Database Design Analyst
> Database Developer
> Database Engineer
> Information Scientist
> Information Technology Education Teacher

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Workforce Trends

Computer systems analysts, database administrators, and computer scientists are expected to be among the fastest growing occupations through the year 2012.

Get the Facts

Information Technology workers are needed in nearly every industry. The demand for technically skilled workers is growing in almost every industry, not just in those considered high-tech.

Core Curriculum and elective requirements may vary district to district. Check with your school counselor.

Concurrent enrollment course offerings vary by school and district.

Foundation courses taken beyond the required credits can be used as elective credit.

Note: *For more information, talk to your school counselor.*

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